

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. ·	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/926,370	12/28/2001	Hiroshi Orikabe	215207US0PCT 9246		
75	90 03/22/2004		EXAM	INER	
Oblon Spivak McClelland Maier & Neustadt			KEEHAN, CHR	KEEHAN, CHRISTOPHER M	
Fourth Floor 1755 Jefferson Davis Highway		ART UNIT	PAPER NUMBER		
Arlington, VA 22202			1712	1712	

DATE MAILED: 03/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			li di				
*1		Application No.	Applicant(s)				
		09/926,370	ORIKABE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Christopher M. Keehan	1712				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address				
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 23 Ja	nuary 2004	٠.				
	.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1.2 and 6-10 is/are pending in the app 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1.2 and 6-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examiner	vn from consideration.					
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
. 9, 🗀	Applicant may not request that any objection to the o						
11)	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Expression is considered to be a second control of the correction.	on is required if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).				
Priority u	under 35 U.S.C. § 119						
12)⊠ a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) D Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 0304.	Paper No(s)/Mail D					

Application/Control Number: 09/926,370

Art Unit: 1712

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of the carboxyl species received 1/23/04 is acknowledged. The traversal is on the ground(s) that the office has not provided any reasons or examples to support a conclusion that the species are indeed patentably distinct, and further, that a search of all the claims would not constitute a serious burden on the Office. This is not found persuasive because JP 4-15272 indicates a specific species as claimed by applicant. Further, each species requires a different subclass search. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 2, and 6-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1, 2, 6, and 7, applicant claims a functional group equivalent of 150 to 2000 g/mol. It is not clear what is meant by this value. In the specification, applicant discloses Resin F (a polybutadiene having carboxyl groups, Mn = 1,711, and an acid value (including solvent) = 70.1 mg KOH/g. An acid value of 70.1 mg KOH (MW of KOH is 56.1 g/mol) indicates that it takes 70.1 mg of KOH to neutralize the carboxyl groups per 1 gram of polymer. Going through the calculations, [(70.1 mg KOH/1 g polymer) x (1711 g/mol) x (1g KOH/1000 mg)] = 120

Application/Control Number: 09/926,370

Art Unit: 1712

g/mol. This is not included in applicant's claimed range. Therefore, there is confusion as to what units applicant is using and to what they pertain for (B).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hoffman et al. (5,276,097). Hoffman et al. disclose a thermosetting resin composition comprising an epoxy resin (A) which has a number average molecular weight of 1200, and an epoxide equivalent of 316 (col.17, lines 36-46), both included in the claimed ranges, respectively, and a resin (B) which has a number average molecular weight of 500 to 8000 (col.17, lines 3-6), and an acid number that can be 67 mg KOH/g (col. 18, lines 1-5). Although Hoffman et al. do not appear to specifically disclose a functional group equivalent of (B), the acid number of Hoffman et al. is virtually the same as applicant's Resin F, and the number average molecular weight of Hoffman et al. shows a range that includes applicant's number average molecular weight of Resin F. Therefore, it appears that the functional group equivalent of (B) of applicant's is inherently disclosed by Hoffman et al. If not inherent, then it would have been obvious to one of ordinary skill in the art at the time the invention was made for the composition of Hoffman et al. to possess an at least similar

Application/Control Number: 09/926,370

Art Unit: 1712

functional group equivalent of (B) to that of applicant's, because the materials of Hoffman et al. are at least similar to those of applicant's, and at least similar materials would have yielded an at least similar functional group equivalent of (B), absent evidence to the contrary.

Allowable Subject Matter

Claims 2 and 6-10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Keehan whose telephone number is (571) 272-1087. The examiner can normally be reached on Monday-Friday, from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu S. Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1712

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Keehan

DAVID J. BUTTNER PRIMARY EXAMINER

March 11, 2004

Dand B. The